

# PATENT ABSTRACTS OF JAPAN

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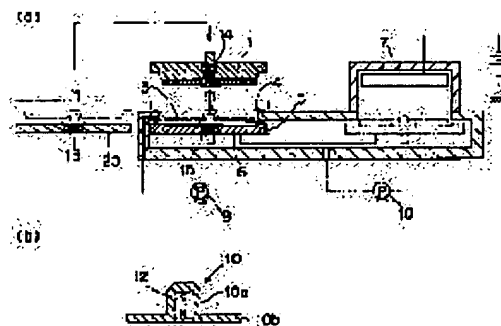
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## (54) HOLDING METHOD AND HOLDING DEVICE OF DISK FOR VACUUM DEVICE

### (57)Abstract:

**PURPOSE:** To surely hold and release a disk and to shorten the time for vacuum evacuation by fitting and holding this disk in the fitting part of a bridge contg. a magnet and sucking and holding this bridge by a disk holding member having an electromagnet.

**CONSTITUTION:** The bridge 10 which contains the magnetized magnet 12 and has the circular columnar fitting part 10a and a disk-shaped collar part 10b is arranged on a disk exchange base 20 having the electromagnet 13. The central hole of the disk is fitted onto the fitting part 10a. The bridge 10 is then attracted together with the disk 7 by means of an arm 1 having the electromagnet 14 and the arm 1 is moved onto a load locking chamber 3 and is lowered in the form of capping an upper aperture 4. The bridge 10 is simultaneously attracted by a plate part 6 having the electromagnet 15 disposed in a lower aperture 5. The arm 1 is detached and the bridge 10 and the plate part 6 holding the disk are transferred to a sputtering chamber 7. The plate part 6 is returned to the load locking chamber 3 when the sputtering of the disk ends. The disk is then taken out together with the bridge 10 by the arm 1 and is returned to its home position.



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